STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS F.A.P. ROUTE 313

US ROUTE 34
SECTION (6BR-1)I
PROJECT
EMERGENCY BRIDGE BEAM REPLACEMENT
HENDERSON COUNTY
C-94-005-09

STANDARDS:

INDEX OF SHEETS:

1. COVER SHEET

5. TYPICAL SECTION

0

0

0

7-8. TRAFFIC CONTROL

10-14. REPAIR DETAILS

2. COMMITMENTS & GENERAL NOTES

3-4. SUMMARY OF QUANTITIES

9. WIDTH RESTRICTION SIGNING

6. SCHEDULE OF QUANTITIES

701001-02 701326-03 701006-03 701901-01 701201-03 704001-05

701321-10 780001-0Z

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 30'
0 50' — 100' — 1"= 30'
0 50' — 100' — 1"= 30'

SN.036-0028-

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

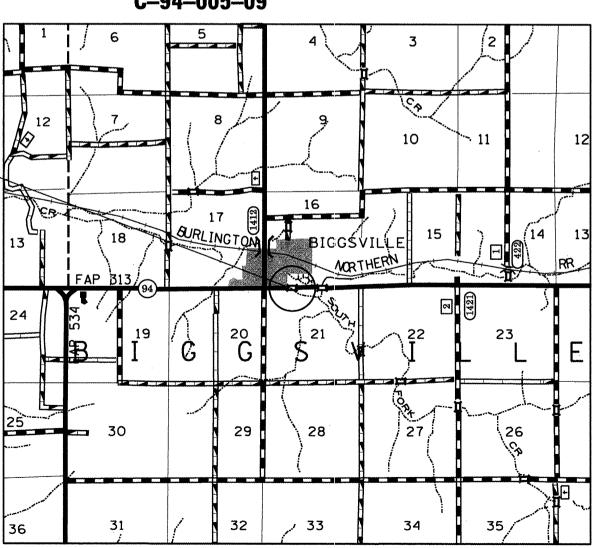
J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123
OR 811

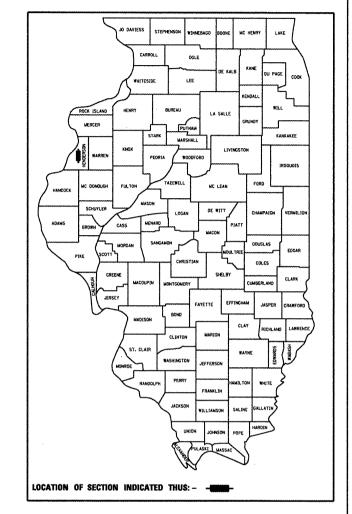
PROJECT ENGINEER

CONTRACT NO. 68849

PROJECT MANAGER



LOCATION MAP



SECTION

(6BR-1)I

COUNTY TOTAL SHEET NO.

HENDERSON 14 1

PROJECT CONSISTS OF EMERGENCY BEAM REPLACEMENT OF (12) PPC DECK BEAMS ON STRUCTURE CARRYING US. 34 OVER SOUTH HENDERSON CREEK (SN.036-0028), 0.3 MILES EAST OF IL. 94.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCT 16 29 08

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DICEMBER 5 20 08

EVILLE: Harry KO

DIVISION ENGINEER OF DESIGN AND ENVIRONMENT

DICEMBER 5, 20 08

CANADAM M. KELAKO

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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COMMITMENTS

No commitments have been made for this project.

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall be advised of the roadway profile for this project including the uphill grade to the East of the bridge. This will require particular attention to placement of traffic control devices and signage for advanced warnings of the construction ahead as distance visibility is hindered.

SN. 036-0028 US. 34

FILE NAME =	USER NAME = brucebm	DESIGNED -	REVISED -					RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.			
S:\GEN\DRAFT\STD&PLNS\SQUAD 8\68849\p)	an note.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		COMMITME	ENTS	& GEN	ERAL NOTES		313	(6BR-1)I	HENDERSON	2
	PLOT SCALE = 100.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							EMERGENC	Y BEAM REPLACEMENT		T NO. 68849
	PLOT DATE = 10/7/2008	DATE -	REVISED -		SCALE:	SHEET NO. OF	S	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT	

	SUMMARY OF QUANTITIES		ATE SFT; HENDERSON	
CODE NO.	ITEM	UNIT	RURAL	TOTAL
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX ''D'', N50	TON	34.4	34.4
44001005	HOT-MIX ASPHALT SURFACE REMOVAL	SQYD	22	22
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQFT	2402	2402
50900905	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	201	201
58100200	WATERPROOFING MEMBRANE SYSTEM	SQYD	285.3	285.3
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	869	869
671 001 00	MOBILIZATI ON	LSUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1
701 06500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1965	1965
70301000	WORKZONE PAVEMENT MARKING REMOVAL	SQ FT	1965	1965

SN. 036-0028 US. 34 over S.Henderson Crk.

FILE NAME = SN. 036-0028	USER NAME = \$USER\$	DESIGNED	REVISED			F.A.P. SECTION	COUNTY TOTAL SHEET NO.
\$FILE: S:\GEN\DRAFT\STDS&PLNS\SQUAD14 \BRIDGE CONTRACTS\Emergencu PPC Beam		DRAWN	REVISED	STATE OF ILLINOIS	SUMMARY OF QUANTITIES	313 (6BR-1)I	HENDERSON 3
Repairs\68849 SN.036-0028 US34 over S.HendersonCrk.don	PLOT SCALE = \$SCALE\$	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		EMERGENCY BEAM REPLACEMENT	CONTRACT NO. 68849
on and sond ringi	PLOT DATE = \$DATE\$	DATE	REVISED		SCALE: SHEET NO OF SHEETS STA TO STA	FED. ROAD DIST. NO. 4 ILLINOIS FED.	AID PROJECT

		SUMMARY OF QUANTITIES		ATE SFTY HENDERSON	i
	CODE NO.	ITEM	UNIT	RURAL	TOTAL
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	654	654
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	430	430
*	78005110	EPOXY PAVEMENT MARKING-LINE 4"	FOOT	1165	1165
-	78300100	PAVEMENT MARKING REMOVAL	SQFT	388	388
	X0301424	SILICONE JOINT SEALER	FOOT	1 32	132
-		PRECAST PRESTRESSED CONCRETE			0.400
-	X0320047	REMOVAL OF EXISTING / DECK BEAMS	SQFT	2408	2408
-	X0320887	POLYMER CONCRETE	CUFT	34.3	34.3
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
-	Z0030250	IMPACT ATTENUATORS, TEMPORARY(NON-REDIRECTIVE), TEST LEVEL3	EACH	2	2
-	Z0030350	IMPACT ATTENUATORS, RELOCATE(NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
-					
-					
		* SPECIALTY ITEM			

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FILE NAME = SN. 036-0028 \$FILE: SN. 026N ORAFTNSTDS&PLNS\SQUAD14 \BRIDGE CONTRACTS\Emergency PPC Beam Repoirs\88849 SN.036-0028 S.Henderson Crk.dgn

USER NAME = \$USER\$

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SN. 036-0028 US. 34 over S.Henderson Crk.

RTE. SECTION COUNTY TOTAL SHEETS NO.

313 (GBR-1)I HENDERSON 4

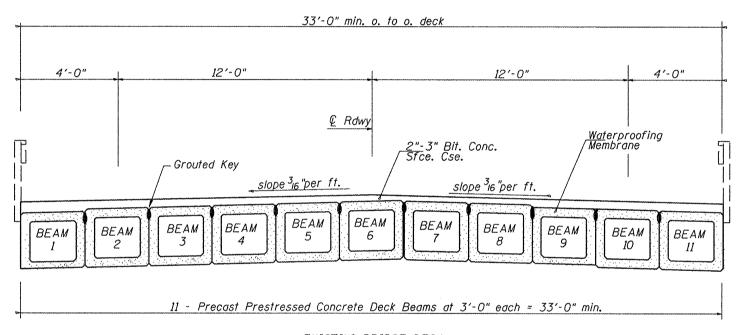
EMERGENCY BEAM REPLACEMENT CONTRACT NO. 68849

FED. ROAD DIST. NO. 4 | ILLINOIS | FED. AID | PROJECT

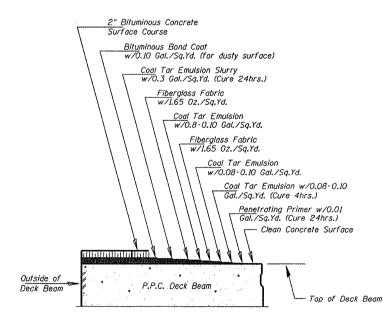
SUMMARY OF QUANTITIES

SCALE: _____ SHEET NO. __ OF __ SHEETS | STA. _____ TO STA. ___

TYPICAL SECTION



EXISTING BRIDGE DECK



EXISTING DECK SURFACING DETAIL

Ī	FILE NAME =	USER NAME = \$USER\$	DESIGNED -		REVISED					F.A.P	SECTION	COUNTY	TOTAL SHEET
	\$FILEL\$		DRAWN -	***	REVISED	state of illinois	Typical Section		317	(CDD_1)1	HENDEDSON	SHEETS NO.	
		PLOT SCALE = \$SCALE\$	CHECKED -	** ** **	REVISED	DEPARTMENT OF TRANSPORTATION	a a language special series			313	(66/4-1/1	CONTRAC	T NO. 68849
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(OLN90(E	O XIEITIIe.ugii 10/20/20	00 1.30.40 FW											

SCHEDULE OF QUANTITIES

EPOXY PAVEMENT MARKING LINE,4" & PAVEMENT MARKING REMOVAL

		í	G. LINE, 4"		KG. REM.	
LOCATION STA. TO STA.		WHITE LENGTH (FOOT)	YELLOW LENGTH (FOOT)	WHITE EDGELINE (SQ.FT.)	YELLOW SKIP DASH (SQ.FT.)	
JOBSITE						
	TOTAL	110	65	388		

TEMPORARY TRAFFIC SIGNALS

LO	LOCATION			
JOBSITE		1		
	<i>T01</i>	TAL 1		

PAVEMENT MARKING TAPE TYPE III. 4" & WORKZONE PAVEMENT MARKING REMOVAL

		G. TAPE, 4"	PVMT. MRKG. REM.
LOCATION STA. TO STA.	WHITE LENGTH (FOOT)	YELLOW LENGTH (FOOT)	WORK ZONE PVMT. MRKG. REM. (FT.)
JOBSITE			
TOTAL	19	1965	

PPC DECK BEAMS (33" DEPTH)

LOCATION	BEAMS (SQ.FT.)
REMOVAL	2408
REPLACEMENT	2402

SILICONE JOINT SEALER

LOCATION	F00T
BRIDGE JOINTS	132
TOTAL	132

POLYMER CONCRETE

LOCATION	CUFT
BRIDGE JOINTS	34.3
TOTAL	34.3

TRAFFIC CONTROL

LOCATION STA. TO STA.		IMPACT ATTEN. TEMP. (EACH)	T.C.&P. STANDARD 701321 (EACH)	T.C.&P. STANDARD 701201 (EACH)	CHANGEABLE MESSAGE SIGN
Sta. 637+62 (Stage 1)	430				
(Stage 2) Sta. 640+01.5	654				
JOBSITE		2	1	1	2
TOTAL	654	2	1	1	2

PAVEMENT MIX SPECIFICATION

The following mixture requirements are applicable as replacement for the existing HMA Surface Removal quantity on the bridge deck.

MIXTURE USE(S):	**SURFACE COURSE
AC/PG:	SBS or SBR 70-22
RAP% (MAX):	10% Max
Design Air Voids:	4.0% @ N=70
Mixture Composition:	IL. 9.5 or 12.5
(Graduation Mixture)	11. 9.3 01 12.3
Friction Aggregate:	Mixture D (dolomité only)

** Individual lift thickness will be no less than 3x nominal maximum and no more than 6x nominal maximum aggregate size.

BRIDGE DECK CONSTRUCTION (STAGE 1 = NORTH SIDE)

REMOVING & I	RE-ERECTI	NG EXISTING RAILING	
NORTH EDGE OF DECK	FOOT	SOUTH EDGE OF DECK	FOOT
Sta. 637+82 to Sta. 639+14.9	134.4	Sta. 639+14.9 to Sta. 639+81.5	66.6
		TOTAL	201
НМ	A SURFACE	REMOVAL	
STAGE 1 AREA	SQ.YD.	STAGE 2 AREA	SQ.YD.
Sta. 637+82 to Sta. 639+14.9	9.2	Sta. 639+14.9 to Sta. 639+81.5	12.8
·		TOTAL	22
PORTLAI	ND CEMENT	FAIRING COURSE	
STAGE 1 AREA	FOOT	STAGE 2 AREA	FOOT
Sta. 637+82 to Sta. 639+14.9	361.4	Sta. 639+14.9 to Sta. 639+81.5	507.6
		TOTAL	960
WATERR	ROOFING M	TOTAL TOTAL	869
		T	00.110
STAGE 1 AREA	SQ.YD.	STAGE 2 AREA	SQ.YD.
Sta. 637+82 to Sta. 639+14.9	118.9	Sta. 639+14.9 to Sta. 639+81.5	186.4
		TOTAL	285.3
HI	MA SURFAC	E COURSE	
STAGE 1 AREA	TON	STAGE 2 AREA	TON
Sta. 637+82 to Sta. 639+14.9	14.5	Sta. 639+14.9 to Sta. 639+81.5	19.9
		TOTAL	34.4

SN. 036-0028 US. 34 over S.Henderson Crk.

FILE NAME =	USER NAME = \$USER\$	DESIGNED	REVISED			RTE. SECTION	COUNTY TOTAL SHEET NO.
\$FILEL\$		DRAWN - CEJ	REVISED	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES	313 (6BR-1)I	HENDERSON 6
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		EMERGENCY BEAM REPLACEMENT	CONTRACT NO. 68849
	PLOT DATE = \$DATE\$	DATE ~ 10/07/2008	REVISED ~		SCALE: SHEET NO OF SHEETS STA TO STA.	FED. ROAD DIST. NO. 4 ILLINOIS FED.	AID PROJECT

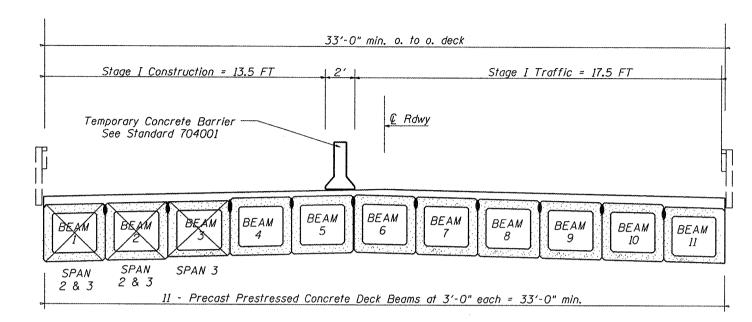
STAGE I

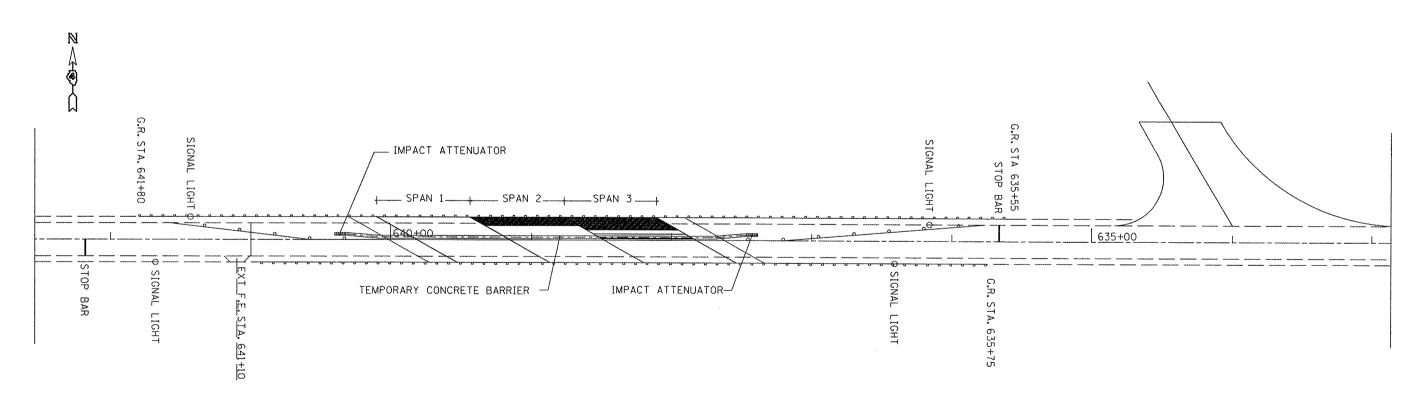
NOTE:

Five W12-I103 signs, as described in the Special Provisions, will be required. Signs shall be placed at the intersections of US.34 with IL. routes 164, 94, & 67 as shown on Sheet 9. These signs shall be located at the direction of the Engineer.

High intensity flashing lights shall be placed on the RCA signs as directed by the Engineer.

The costs shall be included with the cost of the TRAFFIC CONTROL AND PROTECTION STANDARD 701321.





STAGE I CONSTRUCTION

FILE NAME =	USER NAME = \$USER\$	DESIGNED	REVISED			F.A.P SECTION	COUNTY TOTAL SHEET
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	PLOT DATE = \$DATE\$	DATE -	REVISED		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST, NO.	FED. AID PROJECT
						T FED. NOAD DIST. NO.	PEO. AID PROJECT

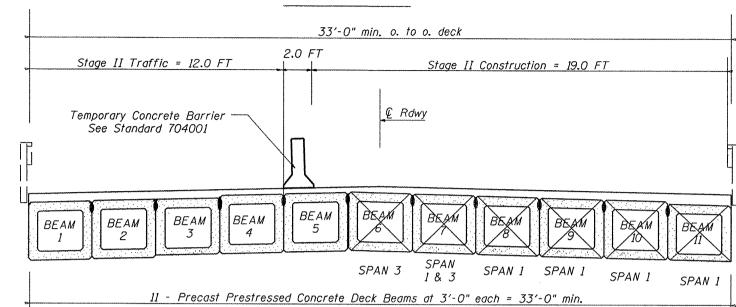
STAGE III

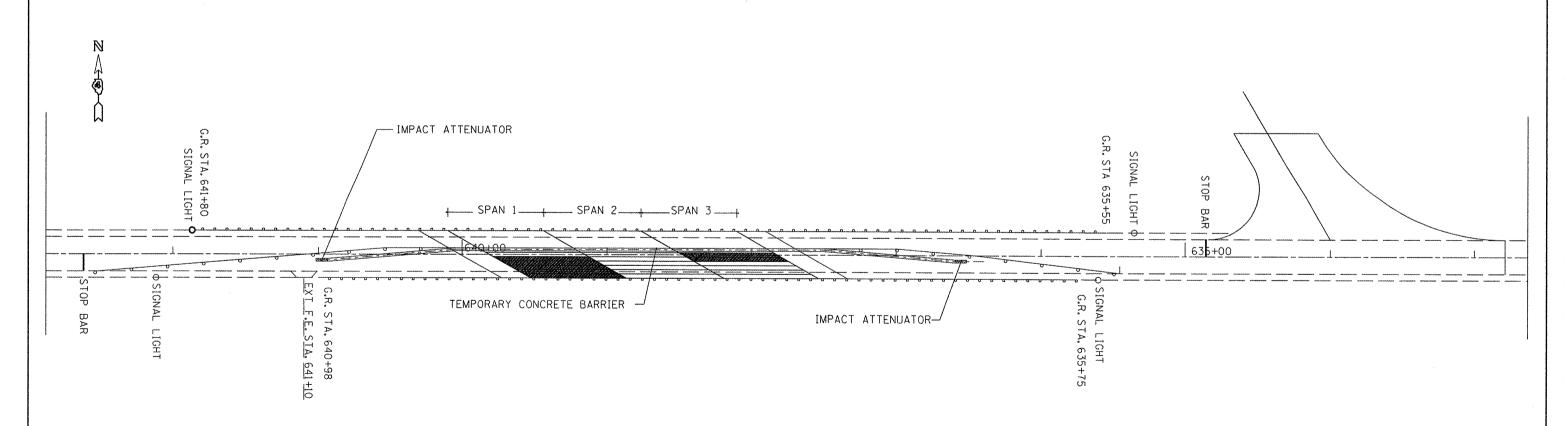
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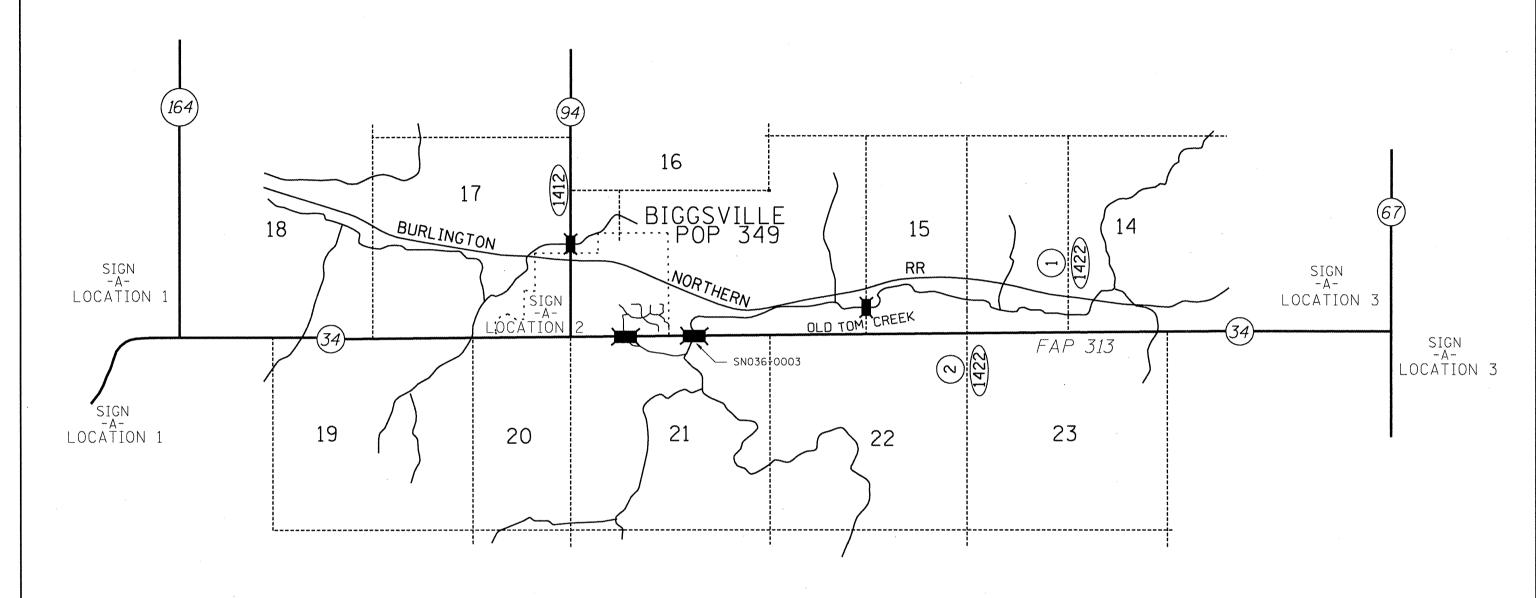


STAGE II CONSTRUCTION

FI	ILE NAME =	USER NAME = \$USER\$	DESIGNED	REVISED			F.A.P	SECTION	COUNTY	TOTAL	SHEET
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		DIOT DATE - ADATEM	DATE -	REVISED -	Best sand professed at a comparation and confidence	SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRAC	JT NO. 6	3849
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Notification signs shall be posted where necessary indicating maximum width ahead of 12'-0" and Changeable Message Boards for traffic from both directions placed one week prior to work start date for public safety and awareness.



SN.036-0003 SIGNING DISTANCES

	SIGN -A-	SIGN -B-
LOCATION 1	2 EA.	NA
LOCATION 2	1 EA.	
LOCATION 3	2 EA.	
LOCATION 4		

CONTRACTOR PROVIDED

MAX. WIDTH XX-XX XX MILES

SIGN

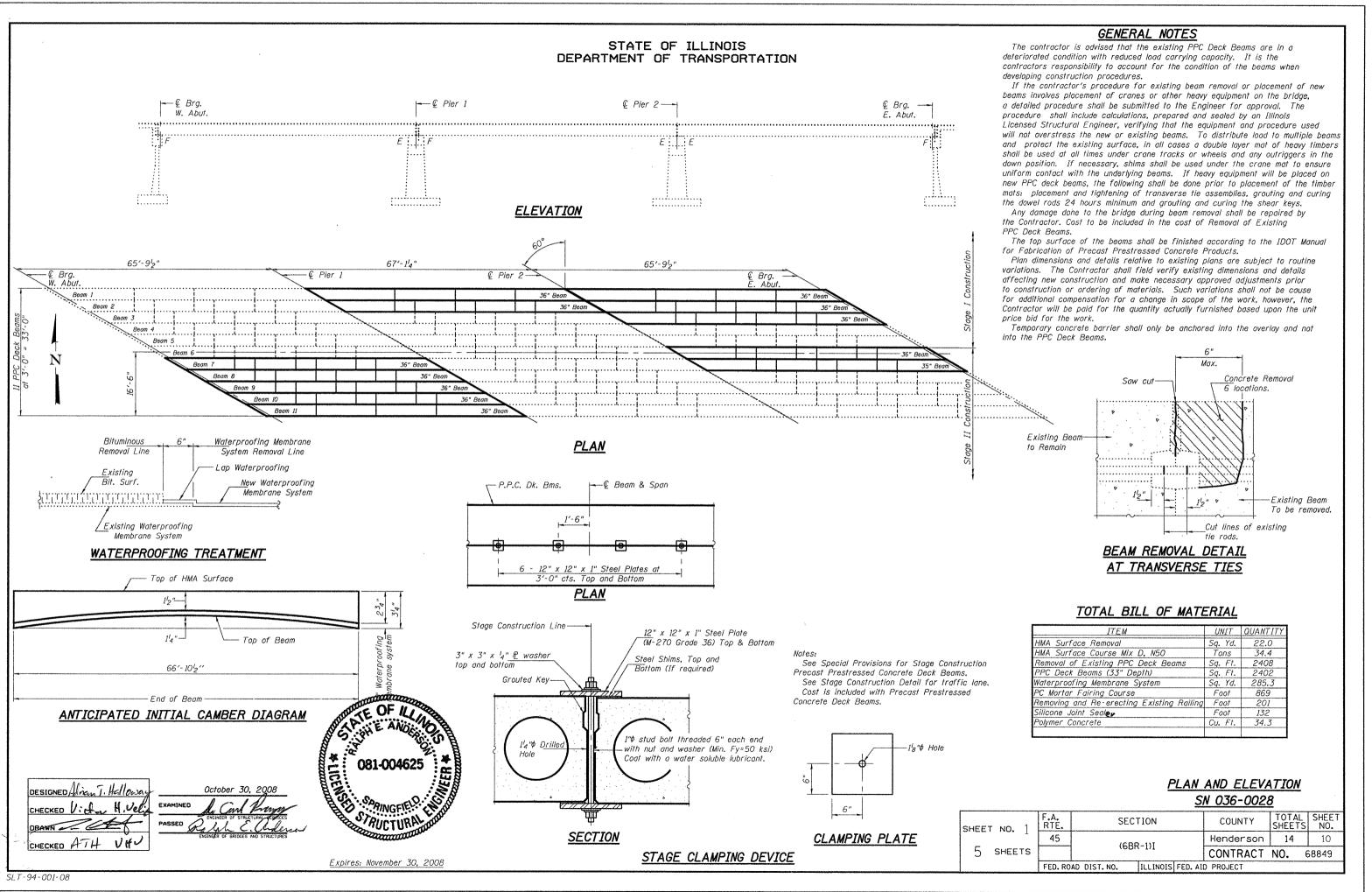
US. 34

IDOT PROVIDED

SEE SPECIAL PROVISIONS FOR SIGNING DETAILS.

SN.036-0028 US.34 OVER SOUTH HENDERSON CREEKCrk.

FILE NAME =	USER NAME = \$USER\$	DESIGNED	REVISED			F.A.P SE	ECTION	COUNTY	TOTAL SI	HEET NO.
\$FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS	WIDTH RESTRICTION SIGNING	313 (6	5BR-1)] F	HENDERSON		9
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 68	849
	PLOT DATE = \$DATE\$	DATE	REVISED		SCALE: SHEET NO OF SHEETS STA TO STA	FED. ROAD DIST. NO.	_ ILLINOIS FED. AID	PROJECT		



60° min. angle € Lifting loop --3-#4 U_I(E) bars -B(E) or $B_2(E)$ ----A(E)---- $-B_1(E)$ $S_3(E)$ and S(E) and $S_1(E)$ U(E) $\frac{S(E) \text{ and}}{S_2(E)}$

SECTION C-C

r►A

10-#4 A(E) bars at 3'-0" cts., Top

about €

20-#4 A(E) bars at 1'-6" cts., Bottom of Top slat

40-#4 S₂(E) bars at 9" cts., Top

40-#4 S(E) bars at 9" cts., Bottom

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted

transverse ties.

up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the

66'-10'2" End to end beam

 $-U_1(E)$

r▶B

 $\blacktriangleright B$

Fan 4 - #4 S4(E) bars, Top. Cut to fit

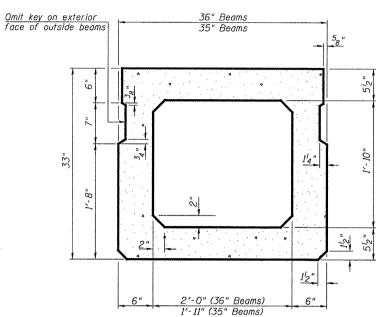
5-#4 S₁(E) bars, Top

PLAN VIEW

5-#4 S(E) bars, Bottom

Fan 4 - #4 S₃(E) bars, Bottom, Cut to fit

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



S4(E)- $-B_1(E)$ $U_1(E)$ 1. C.

VIEW B-B

BAR LIST ONE BEAM ONLY 36" BEAM

(For information only)

1	Bar	No.	Size	Length	Shap
	A(E)	60	#4	2'-7"	
	B(E)	12	#5	23'-8"	
	$B_1(E)$	9	#4	23'-4"	
	$B_2(E)$	6	#5	23'-8"	
	S(E)	90	#4	7′-5"	
	$S_1(E)$	10	#4	6'-3"	
	$S_2(E)$	80	#4	6'-6"	١~٦
	$S_3(E)$	12	#4	5′-11"	
	S4(E)	12	#4	5'-4"	
	U(E)	8	#6	5′-0"	
	$U_I(E)$	6	#4	11'- 10"	乙

BAR LIST ONE BEAM ONLY <u>35" BEAM</u>

(For information only)

Bar	No.	Size	Length	Shape
A(E)	60	#4	2'-7"	
B(E)	12	#5	23'-8"	
$B_1(E)$	9	#4	23'-4"	
$B_2(E)$	6	#5	23'-8"	
S(E)	90	#4	7'-4"	LJ
$S_1(E)$	10	#4	6'-2"	
$S_2(E)$	80	#4	6'-5"	└ ~7
$S_3(E)$	12	#4	5'-11"	
S4(E)	12	#4	5'-4"	
U(E)	8	#6	5′-0"	
$U_1(E)$	6	#4	11'-8"	7

BEAM DETAILS

SN 036-0028

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

SECTION A-A (Showing dimensions) $\Gamma S_2(E)$ $-B_1(E)$ 2 strands --- 2 strands S(E) ¬ — 2 strands 2" cts.

SECTION A-A

(Showing reinforcement and permissible strand locations)

DESIGNED A.T.H. CHECKED V.H.V. DRAWN Drew Christopher CHECKED A.T.H. V.H.V.

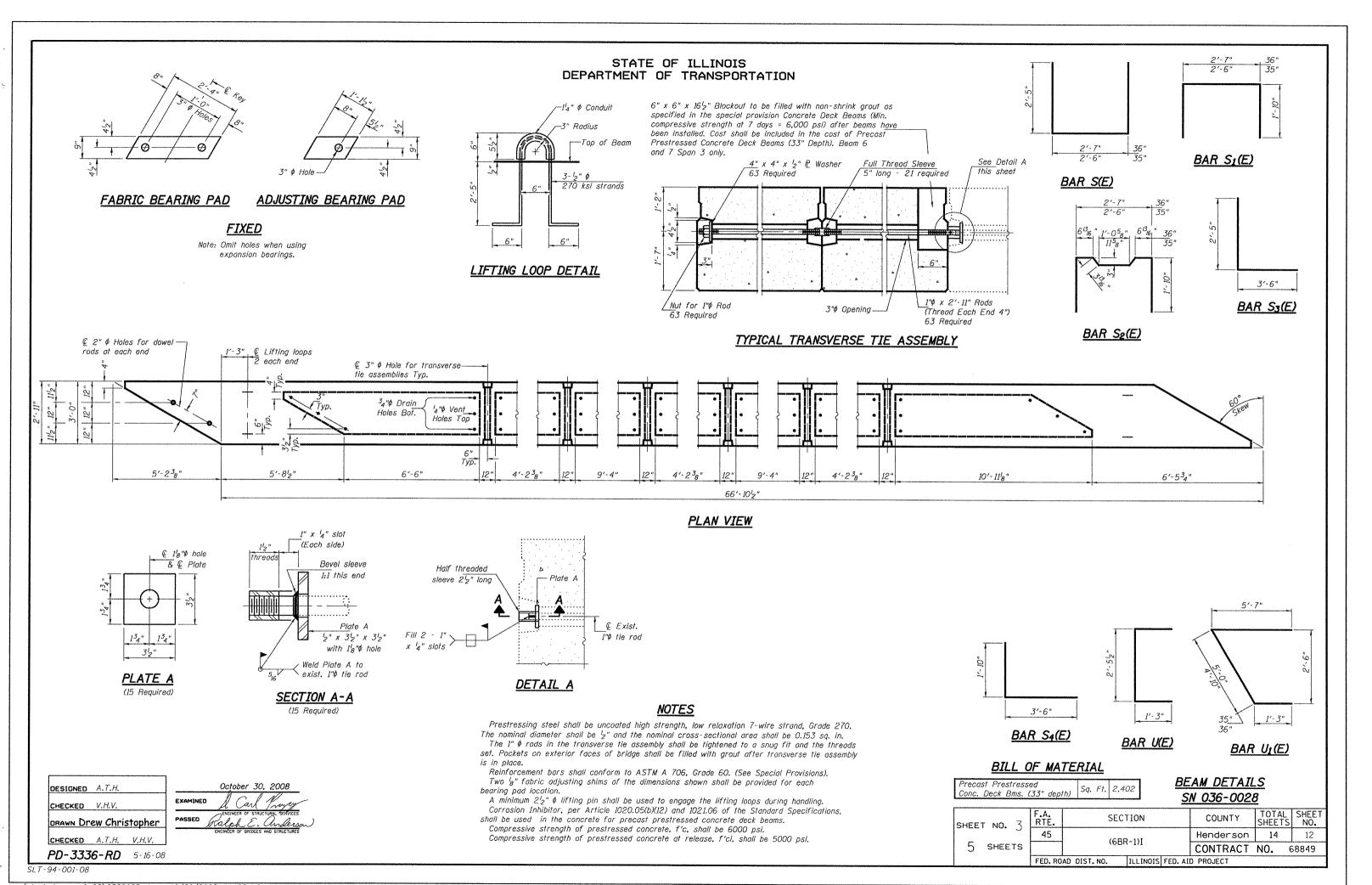
October 30, 2008

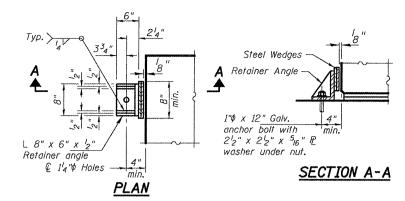
PD-3336-R 5-16-08

2-#4 S4(E) bars, Top 2-#4 S3(E) bars, Bottom

TOTAL SHEET SHEETS NO. SECTION COUNTY SHEET NO. 2 45 14 11 Henderson (6BR-1)I 5 SHEETS CONTRACT NO. 68849 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

SLT-94-001-08 \deck beams fv08\0360028.dgn 10/30/2008 11:08:47 AM

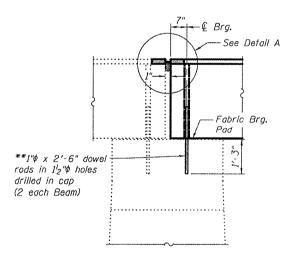




EXPANSION END SIDE RETAINER DETAIL

Anchor bolts may be cast into the masonry or approved threaded rod may be placed in drilled holes and grouted in place. Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams.

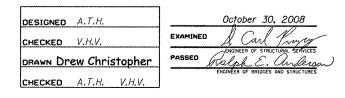
*1" Joint shall be filled with non-shrink grout. Dimension may vary to accommodate tolerance in beam lengths.
**Existing dowel rods are to be burned off, ground flush, and sealed with epoxy prior to placement of new beams. Cost included in Removal of Existing PPC Deck Beams. After beams have been erected holes shall be drilled into cap and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.



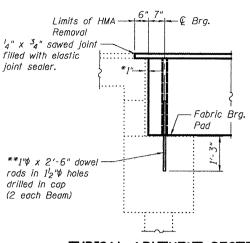
TYPICAL PIER SECTION

(Showing New beams at one side only)

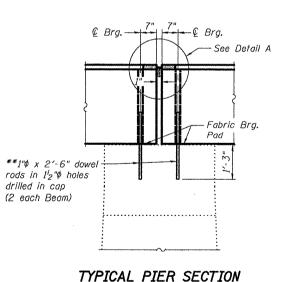
Removal of existing neoprene expansion joints included in the cost of Polymer Concrete Nosing. Silicone joint sealer and polymer concrete to be placed out to out of the bridge.



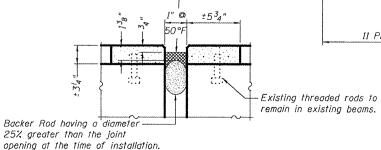
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



TYPICAL ABUTMENT SECTION



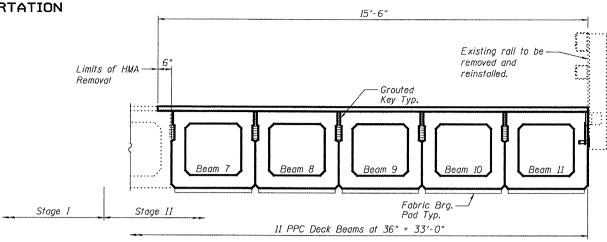
(Showing New beams at both sides)



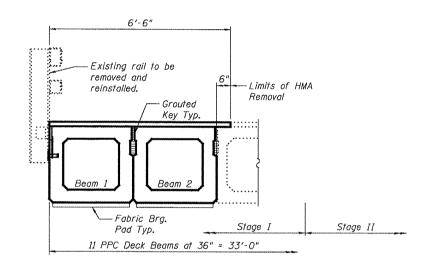
-Silicone Joint Sealer

remain in existing beams.

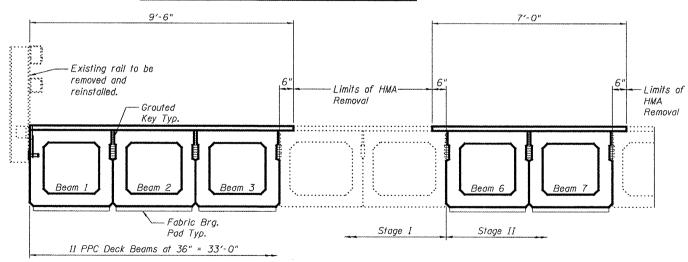
DETAIL A



PARTIAL SPAN 1 DECK CROSS SECTION



PARTIAL SPAN 2 DECK CROSS SECTION



PARTIAL SPAN 3 DECK CROSS SECTION

DECK AND JOINT DETAILS SN 036-0028

	SHEET NO.	4	F.A. RTE.	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
	5 SHEETS		45	(6BR-1)I			Henderson	14	13
				יוםטו	(-1)1		CONTRACT	NO. 6	8849
			FED. RO	AD DIST. NO.	ILLINOIS	FED. AI	PROJECT		

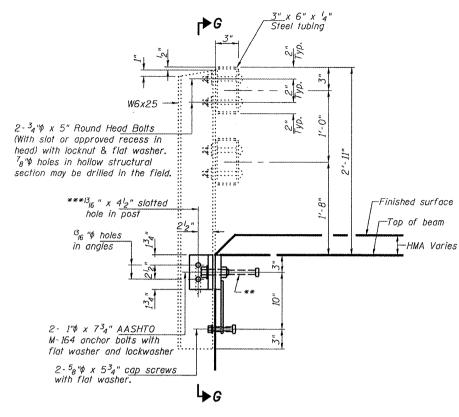
7_8 " ϕ Holes in angles 7_8 " ϕ Holes 7_8 "

SECTION G-G

***Extend slots in existing

posts as required.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



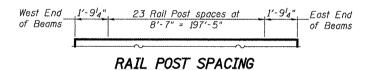
SECTION AT RAIL POST See sheet 3 of 5 for rail post spacing

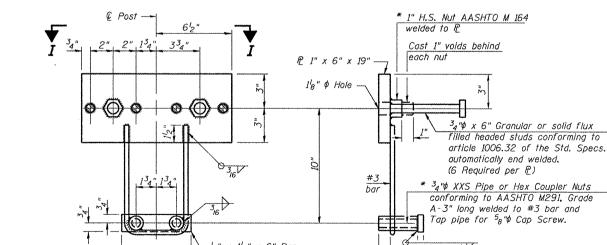


All field drilled holes shall be coated with an approved zinc rich paint before erection.

Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

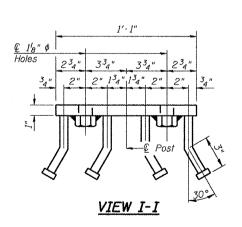
*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.





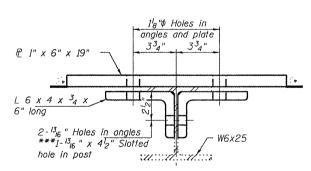
ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

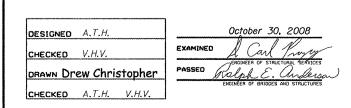


RAIL DETAILS SN 036-0028

					-	
SHEET NO. 5	F.A. RTE.	SEC	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
	45	45 (6BR-1)I		Henderson	14	14
5 SHEETS		1001	(-1)1	CONTRACT	NO. 6	58849
	FED. RO	AD DIST. NO.	ILLINOIS FED. A	AID PROJECT		



SECTION H-H



SLT-94-001-08